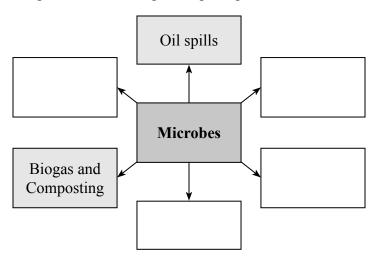
Time	: 2 hour	s Activit	y Sheet–	Mai	rch 2020	Marks: 40
Note	e: (i)	All questions	are com	puls	sory.	
	(ii)	Use of calcula	ator is no	ot al	lowed.	
	(iii)	The numbers marks.	to the rig	ght (of the questions	s indicate full
	(iv)	In case of MC will be evaluated			l.(A)), only the be given credi	-
	(v)	d - with subcanswer.	luestion	nur	ect alternative mber is to be	
	(vi)	For e.g., i. a Scientifically drawn wherev	correct	, lal	pelled diagram y.	ns should be
Q.1.	(A) Ch	oose the corre	ct optio	n.		[5]
	Transfer of information from a molecule of DNA to mRNA is					
	called.		proc	ess.		
	a. tra	nscription		b.	translation	
	c. tra	nslocation		d.	mutation	
	-	oreaks up into se as a new indiv uction.		_		-
	a. bu	dding		b.	fragmentation	1
	c. reg	generation		d.		
iii.	Incomp	olete combust	ion of	fue	els leads to	formation of
	a. cai	rbon monoxide		b.	carbon dioxic	le
	c. chl	lorofluorocarbo	n	d.	hydrogen sul	phide
	The spindle fibres start appearing fromstage of karyokinesis.					
	a. pro	ophase		b.	metaphase	
	c. ana	aphase		d.	telophase	

[5]					
[5]					
[5]					
outh					
Write the functions of the testes.					
I am a connecting link between Reptilia and Mammals. What is my name?					
[4]					
Indians should follow family planning for controlling population.					
We feel exhausted after exercising.					
Hydroelectric energy, solar energy, and wind energy are called renewable energies.					
[6]					
1i					

- ii. Distinguish between Aves and Mammalia.
- iii. By observing the given picture, write any *two* effects of this disaster.



- iv. Explain four ways to minimize stress.
- v. Complete the following conceptual picture.

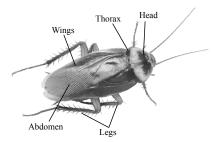


Q.3. Answer the following questions. (Any five)

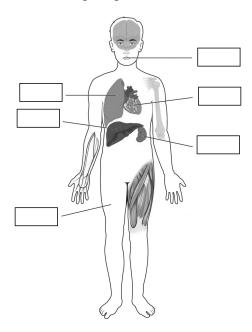
[15]

- i. Explain the importance of anatomical evidences with examples.
- ii. What will you do? Why?
 - a. Child of your neighbour is addicted to tobacco chewing.
 - b. Your friend has developed the hobby of snapping selfies.
 - c. Your sister has become incommunicative. She prefers to remain alone.

- iii. Which precautions are necessary for proper decomposition of domestic waste?
- iv. Observe the given diagram. Write the answers of the following questions:



- a. To which phylum does the animal included in the diagram belong?
- b. What is the exoskeleton made up of?
- c. What is the symmetry?
- v. Explain the following concepts in short.
 - a. Surrogacy
 - b. In Vitro Fertilization (IVF)
 - c. Sperm Bank
- vi. Body organization of human is shown in the following figure. Label the different organs present in the human body.



vii. Make a table based on forms of energy and corresponding devices.

Sr. No.	Forms of Energy	Devices	
1.	Electric		
2.	Mechanical	Sewing machine, Bicycle	
3.	Thermal		
4.		Solar cooker, Solar heater	

viii.	Complete the paragraph using proper words from the brackets						
	(mechanical, Rhizobium, aquatic, toxic, CO ₂ , nitrogen,						
	Pseudomonas, amoeba, bacteria, hydrocarbons)						
	Spilling of petroleum oil occurs in ocean due to various reasons. This oil may prove fatal and toxic to						
	organisms. It is not easy to remove the oil layer from surface						
	of water by method. However, bacteria						
	like spp. and Alcanovorax borkumensis						
	have the ability to destroy the pyridines and other chemicals.						
	Hence, these are used to clear the oil spills.						
	These are called as hydrocarbonoclastic bacteria (HCB). HCB						
	decompose the and bring about the reaction						
	of carbon with oxygen and water is formed						
	in this process.						

Q.4. Answer the following questions. (Any one) [5]

- i. Attempts at various levels are performed for conserving environment. Which role would you like to perform. Give two actions each.
 - a. Prevention
- b. Control
- c. Production

- d. Awareness
- e. Conservation
- ii. a. What is Biotechnology?
 - b. Give one use of Biotechnology.
 - c. Give one commercial use of Biotechnology.
 - d. Write two examples of bacterial biofertilizers.
 - e. Write names of two genetically modified crops.